



US009635957B2

(12) **United States Patent**
Hardy

(10) **Patent No.:** **US 9,635,957 B2**
(45) **Date of Patent:** **May 2, 2017**

(54) **PRODUCT MANAGEMENT DISPLAY SYSTEM**

(71) Applicant: **RTC Industries, Inc.**, Rolling Meadows, IL (US)

(72) Inventor: **Stephen N. Hardy**, Wadsworth, OH (US)

(73) Assignee: **RTC Industries, Inc.**, Rolling Meadows, IL (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **15/043,287**

(22) Filed: **Feb. 12, 2016**

(65) **Prior Publication Data**

US 2016/0157635 A1 Jun. 9, 2016

Related U.S. Application Data

(60) Division of application No. 14/166,552, filed on Jan. 28, 2014, now Pat. No. 9,265,358, which is a (Continued)

(51) **Int. Cl.**
A47F 1/04 (2006.01)
A47F 5/00 (2006.01)

(Continued)

(52) **U.S. Cl.**
CPC **A47F 1/126** (2013.01); **A47F 5/005** (2013.01); **A47B 57/585** (2013.01)

(58) **Field of Classification Search**
CPC F25D 25/02; F25D 25/027; B65G 1/07; B65G 1/08; B65G 1/10; B65D 83/00; (Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

153,227 A 7/1874 Walker
154,940 A 9/1874 Adams
(Continued)

FOREIGN PATENT DOCUMENTS

AU 2012301697 A1 4/2014
AU 2012301707 A1 4/2014
(Continued)

OTHER PUBLICATIONS

Apr. 19, 2016—(EU) Examination Report—App 15172675.
(Continued)

Primary Examiner — Jennifer E Novosad

(74) *Attorney, Agent, or Firm* — Banner & Witcoff, Ltd.

(57) **ABSTRACT**

A merchandise display system can include a pusher extender that increases the pushing surface of the pusher. The pusher extender may define an elongated pusher body having a cavity. The pusher extender may be configured to slide over the pusher wall via the cavity like a sleeve. The pusher extender with an enlarged, substantially planar surface thereby creates an enlarged pushing surface for pushing larger products toward the front of the display system. The pusher extender can also be provided with an angled pusher surface to accommodate larger products. The display system can be mounted to a rear hang bar located towards the back of the shelf. A hanger may be positioned within a cavity formed in the divider and extend the length of the divider. The hook end of the hanger may then be positioned on the hang bar and the entire system may cantilever out from the hang bar.

15 Claims, 130 Drawing Sheets

